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July 10, 2014

Ms. Christine Medley
Bio Defense Specialist / PHEP Coordinator
FMIT Office of Emergency Response
500 Merriman Avenue
Needles, California 92363

Re: Second Quarter 2014 Groundwater Monitoring Report
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

EPA Site ID FTMO-005
EN TECH Project No. 2789

Dear Ms. Medley:

Enclosed is the ***Second Quarter 2014 Groundwater Monitoring Report*** (Report) for the above referenced facility. Included within is a description of the activities performed by Environmental Technology, Inc. (EN TECH®) on behalf of the Fort Mojave Indian Tribe from April 2014 through June 2014. Those activities included groundwater monitoring, free product checks, and groundwater sampling.

If you have any questions or require additional information with regard to this project, please contact me at your convenience.

Sincerely,

A handwritten signature in blue ink that reads "C. D. Miller".

Carney D. Miller, AEP, CIPS
Senior Project Manager

Enclosures

cc: File



2541 East University Drive • Phoenix AZ 85034 • 602-267-1900 • Fax 602-267-1973

**SECOND QUARTER 2014
GROUNDWATER MONITORING REPORT**

**Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440**

EPA Site ID FTMO-005

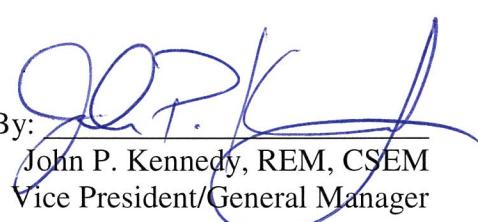
EN TECH Project No. 2789

July 10, 2014

Prepared By:


Carney D. Miller, AEP, CIPS
Senior Project Manager

Reviewed By:


John P. Kennedy, REM, CSEM
Vice President/General Manager

Reviewed By:

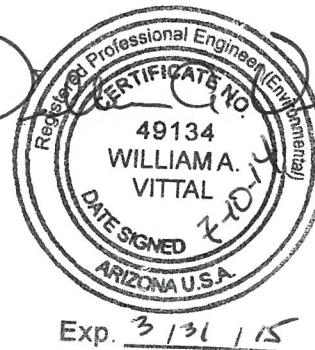


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INTRODUCTION

This Report documents and discusses the activities performed by Environmental Technology, Inc. (EN TECH[®]) at the Fort Mojave Smoke Shop from April 2014 through June 2014. The Fort Mojave Smoke Shop is located at 8501 South Highway 95, Mohave Valley, Arizona. See Figures 1 and 2 for a Site Vicinity Map and a Site Plan drawing. Field activities performed by EN TECH during the reporting period included the field measurement of groundwater levels, measurement of free product levels, and sampling and laboratory analysis of groundwater from the facility's monitoring wells. The field activities were performed as requested in US EPA Region IX correspondence ***Long-term Release Response and Corrective Action for UST Systems-Groundwater Monitoring Required, Fort Mojave Smoke Shop, Mohave Valley, AZ (EPA Site ID: FTMO-005)***, dated January 14, 2014.

WATER LEVEL MONITORING

EN TECH personnel measured water levels in each of the facility's monitoring wells on April 10, May 14, and June 12, 2014. Water level measurements were made to a surveyed reference point, located at the north side of the top of each well casing, using a product/water interface probe or equivalent device. Water level measurements and calculations of groundwater elevations are summarized in Table 1. Figure 3 presents a hydrograph of groundwater elevations. Figures 4, 5, and 6 contain groundwater contour maps for the April 10, May 14, and June 12, 2014 groundwater elevations.

EVALUATION OF WATER LEVEL DATA

For the reporting period, the maximum groundwater elevation of 465.00 feet above mean sea level (amsl) occurred in MW-3 on April 10. The minimum groundwater elevation of 464.81 feet amsl occurred in MW-6 on June 12. The maximum average groundwater elevation of 464.96 feet amsl occurred on April 10, while the minimum average of 464.87 feet amsl occurred on June 12.

Table 2 is a summary of groundwater gradient calculations for the entire project. As Table 2 indicates, the average groundwater gradient, for this reporting period, ranged from south 30.5° east at 0.00063 feet per foot on June 12, 2014, to south 70.1° east at 0.00051 feet per foot on May 14, 2014. For all monitoring events, the groundwater flow direction averages south 54.8° east with a maximum variance of 44.8° clockwise of average and 59.7° counterclockwise of average.

GROUNDWATER SAMPLING

EN TECH collected compliance groundwater samples from wells MW-1 through MW-7 on June 12, 2014. Prior to sampling, EN TECH personnel measured the depth-to-water and total depth of each monitoring well, calculated the casing volume, and purged three casing volumes using a freshly decontaminated submersible pump and new polyethylene hose. While purging, EN TECH personnel collected samples from the pump discharge to measure and record pH, conductivity, and temperature using a calibrated field grade meter designed for the purpose. The purge water was collected into 55-gallon steel drums and staged on-site for pending disposal. Following purging, samples were collected for laboratory analysis by hand-bailing using a new polypropylene bailer for each well. The contents of the bailer were emptied into laboratory-supplied sample containers. Groundwater samples were labeled and stored in an ice chest containing sufficient ice to reduce and maintain sample temperature at 4 degrees Celsius. Samples were transported and relinquished to Orange Coast Analytical Laboratory (Orange Coast) using the laboratory supplied chain of custody documentation.

All samples collected from the monitoring wells for laboratory analysis were analyzed by Orange Coast for gasoline-ranged organic (GRO) compounds using EPA Method 8015D and for volatile organic compounds (VOCs) using EPA Method 8260B. Copies of the laboratory reports and chain-of-custody documentation are provided in Appendix A. Field parameter measurements of pH, conductivity, and temperature for the June 2014 sample event can be found in Appendix B. A summary of groundwater monitoring data for the entire project can be found

in Appendix C. The summary includes water and product level measurements, calculations of groundwater elevation, and analytical results for the chemicals-of-concern.

EVALUATION OF GROUNDWATER SAMPLE DATA

For the June 2014 sampling event, the Orange Coast laboratory report indicates that no GROs or VOCs were detected in the samples collected from MW-2, 3, 4, 5, 6, and 7. This data is consistent with previous laboratory analysis. The reported GRO concentration in the sample collected from MW-1 was 25,000 micrograms per liter ($\mu\text{g}/\text{L}$). Benzene, ethylbenzene, and toluene were reported at concentrations of 1,800 $\mu\text{g}/\text{L}$, 1,100 $\mu\text{g}/\text{L}$, and 5,600 $\mu\text{g}/\text{L}$, respectively. Each of these concentrations exceeds their respective federal Maximum Contaminant Level (MCL). Xylenes were reported at a concentration of 2,000 $\mu\text{g}/\text{L}$, which is below the MCL. Other constituents reported by Orange Coast included isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. None of these constituents have an MCL.

The groundwater analytical data from June 12, 2014 is presented in Table 3. The groundwater analytical data from the March 19, 2014 sampling event is presented in Table 4 for comparison. Isoconcentration maps, depicting the reported GRO and benzene concentrations from the June sampling event, are presented in Figures 7 and 8, respectively.

As reported in the First Quarter 2014 Groundwater Monitoring Report, EN TECH believes that MW-1 and MW-5 were mislabeled during sample collection for the March 2014 quarterly groundwater sampling event. EN TECH collected non-purge samples in April 2014 to confirm the potential mislabeling of MW-1 and MW-5.

FREE PRODUCT

Free product has been periodically detected in MW-1. Previous free product recovery activities included the use of passive skimmers and hydrophobic absorbent socks. No free product was detected with the interface probe, nor was any free product recovered during this reporting

period. EN TECH will continue to monitor for the presence of free product and conduct additional free product recovery activities as needed.

FUTURE FIELD ACTIVITIES

EN TECH will continue to monitor depth-to-water and check for free product in all on-site groundwater monitoring wells, on a monthly basis. Should free product be detected in any of the wells, free product recovery activities will be conducted to the extent practicable. Groundwater sampling will be conducted on a quarterly basis. The next quarterly groundwater sampling event is scheduled to be conducted in September 2014. The next quarterly groundwater monitoring report is scheduled to be submitted in October 2014.

LIMITATIONS

Environmental Technology, Inc. has performed the tasks outlined in this project report in accordance with generally accepted practices and consistent with the level of work performed by other consultants providing similar services in Arizona at the time of the investigation. No warranty, expressed or implied, is made. This report is not a complete chemical characterization of the property, and is not to be construed in the whole or as part as "due diligence inquiry" as specified in the Superfund Amendment and Reauthorization Act of 1986, (SARA), as amended.

TABLES

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	TOS	6	6	6	7	7	7	8					
	TD	37	36	37	38	37	37	38					
10/28/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	16.73	17.01	16.59	16.72	16.41			16.69	16.41	MW-5	17.01	MW-2
	DTP	16.69							16.69	16.69	MW-1	16.69	MW-1
	PT	0.04							0.04	0.04	MW-1	0.04	MW-1
	CDTW	16.70							16.70	16.70	MW-1	16.70	MW-1
	GWE	465.83	465.95	465.99	465.97	465.92			465.93	465.83	MW-1	465.99	MW-3
11/11/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	16.84	17.24	16.84	16.98	16.66			16.91	16.66	MW-5	17.24	MW-2
	DTP	16.81							16.81	16.81	MW-1	16.81	MW-1
	PT	0.03							0.03	0.03	MW-1	0.03	MW-1
	CDTW	16.82							16.82	16.82	MW-1	16.82	MW-1
	GWE	465.71	465.72	465.74	465.71	465.67			465.71	465.67	MW-5	465.74	MW-3
12/09/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	17.23	17.63	17.24	17.38	17.04			17.30	17.04	MW-5	17.63	MW-2
	GWE	465.30	465.33	465.34	465.31	465.29			465.31	465.29	MW-5	465.34	MW-3
12/18/13	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.32	17.71	17.32	17.46	17.11	16.18	16.46	17.08	16.18	MW-6	17.71	MW-2
	DTP	17.27							17.27	17.27	MW-1	17.27	MW-1
	PT	0.05							0.05	0.05	MW-1	0.05	MW-1

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
 Page 1 of 3

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	CDTW	17.28							17.28	17.28	MW-1	17.28	MW-1
	GWE	465.25	465.25	465.26	465.23	465.22	465.20	465.22	465.23	465.20	MW-6	465.26	MW-3
01/07/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.50	17.90	17.53	17.67	17.31	16.39	16.66	17.28	16.39	MW-6	17.90	MW-2
	GWE	465.03	465.06	465.05	465.02	465.02	464.99	465.02	465.03	464.99	MW-6	465.06	MW-2
01/08/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.53	17.93	17.55	17.70	17.33	16.42	16.69	17.31	16.42	MW-6	17.93	MW-2
	GWE	465.00	465.03	465.03	464.99	465.00	464.96	464.99	465.00	464.96	MW-6	465.03	MW-2
02/26/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.73	18.12	17.76	17.91	17.54	16.61	16.87	17.51	16.61	MW-6	18.12	MW-2
	GWE	464.80	464.84	464.82	464.78	464.79	464.77	464.81	464.80	464.77	MW-6	464.84	MW-2
03/19/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.52	17.93	17.54	17.69	17.34	16.41	16.69	17.30	16.41	MW-6	17.93	MW-2
	GWE	465.01	465.03	465.04	465.00	464.99	464.97	464.99	465.00	464.97	MW-6	465.04	MW-3
04/10/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.56	17.97	17.58	17.73	17.39	16.47	16.74	17.35	16.47	MW-6	17.97	MW-2
	GWE	464.97	464.99	465.00	464.96	464.94	464.91	464.94	464.96	464.91	MW-6	465.00	MW-3
05/14/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.57	17.99	17.59	17.74	17.42	16.50	16.78	17.37	16.50	MW-6	17.99	MW-2
	GWE	464.96	464.97	464.99	464.95	464.91	464.88	464.90	464.94	464.88	MW-6	464.99	MW-3
06/12/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
 Page 2 of 3

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	DTW	17.65	18.03	17.67	17.83	17.48	16.57	16.82	17.44	16.57	MW-6	18.03	MW-2
	GWE	464.88	464.93	464.91	464.86	464.85	464.81	464.86	464.87	464.81	MW-6	464.93	MW-2

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
Page 3 of 3

Table 2. Summary of Groundwater Gradient Calculations

Date	Max	Well ID	Min	Well ID	Magnitude	Direction	Direction	Mag Var	Dir Var
10/28/13	465.99	MW-3	465.83	MW-1	0.00069	65.5	N 65.5 E	0.00025	-59.7
11/11/13	465.74	MW-3	465.67	MW-5	0.00053	95.0	S 85 E	0.00009	-30.2
12/09/13	465.34	MW-3	465.29	MW-5	0.00036	107.7	S 72.3 E	-0.00008	-17.5
12/18/13	465.26	MW-3	465.20	MW-6	0.00028	127.4	S 52.6 E	-0.00017	2.2
01/07/14	465.06	MW-2	464.99	MW-6	0.00035	148.5	S 31.5 E	-0.00009	23.3
01/08/14	465.03	MW-2	464.96	MW-6	0.00034	143.6	S 36.4 E	-0.00010	18.4
02/26/14	464.84	MW-2	464.77	MW-6	0.00046	170.0	S 10 E	0.00002	44.8
03/19/14	465.04	MW-3	464.97	MW-6	0.00032	132.5	S 47.5 E	-0.00012	7.3
04/10/14	465.00	MW-3	464.91	MW-6	0.00041	127.5	S 52.5 E	-0.00003	2.3
05/14/14	464.99	MW-3	464.88	MW-6	0.00051	109.9	S 70.1 E	0.00006	-15.3
06/12/14	464.93	MW-2	464.81	MW-6	0.00063	149.5	S 30.5 E	0.00018	24.4
				Avg	0.00044	125.2	S 54.8 E		
				Min Mag Var	-0.00017				
				Max Mag Var	0.00025				
				CCW Dir Var	-59.7				
				CW Dir Var	44.8				

Min and Max Mag Var are the maximum negative and positive variation from average magnitude.

CCW Dir Var and CW Dir Var are the maximum counter clockwise and clockwise variation from average flow direction.

Table 2.

Page 1 of 1

Table 3. Summary of Laboratory Analysis of Groundwater Samples

June 12, 2014

COCs	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Max	Well ID	MCLs
GRO	25,000	<100	<100	<100	<100	<100	<100	25,000	MW-1	NE
Benzene	1,800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,800	MW-1	5.00
n-Butylbenzene	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
sec-Butylbenzene	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Ethylbenzene	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,100	MW-1	700
Isopropylbenzene	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	110	MW-1	NE
MTBE	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Naphthalene	<300	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			NE
n-Propylbenzene	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200	MW-1	NE
Toluene	5,600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5,600	MW-1	1,000
1,2,4-Trimethylbenzene	680	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	680	MW-1	NE
1,3,5-Trimethylbenzene	220	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	220	MW-1	NE
Xylenes	2,000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2,000	MW-1	10,000

All values reported in micrograms per liter.

All samples analyzed using EPA Methods 8015D and 8260B.

Bolded and italicized values exceed method reporting limits.

Bolded and shaded values exceed regulatory standards.

MCLs is Maximum Contaminant Levels.

NE means regulatory value not established.

Table 3.
 Page 1 of 1

Table 4. Summary of Laboratory Analysis of Groundwater Samples
March 19, 2014

COCs	MW-1*	MW-2	MW-3	MW-4	MW-5**	MW-6	MW-7	Max	Well ID	MCLs
GRO	32,000	<100	<100	<100	<100	<100	<100	32,000	MW-1	NE
Benzene	1,400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,400	MW-1	5.00
n-Butylbenzene	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
sec-Butylbenzene	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Ethylbenzene	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,100	MW-1	700
Isopropylbenzene	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	100	MW-1	NE
MTBE	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Naphthalene	<300	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			NE
n-Propylbenzene	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	180	MW-1	NE
Toluene	7,900	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7,900	MW-1	1,000
1,2,4-Trimethylbenzene	720	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	720	MW-1	NE
1,3,5-Trimethylbenzene	220	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	220	MW-1	NE
Xylenes	4,100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4,100	MW-1	10,000

All values reported in micrograms per liter.

All samples analyzed using EPA Methods 8015D and 8260B.

Bolded and italicized values exceed method reporting limits.

Bolded and shaded values exceed regulatory standards.

MCLs is Maximum Contaminant Levels.

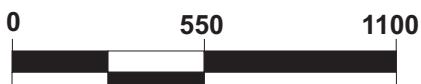
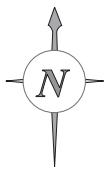
NE means regulatory value not established.

*Misidentified as MW-5 on laboratory report and chain-of-custody documentation.

**Misidentified as MW-1 on laboratory report and chain-of-custody documentation.

Table 4.
 Page 1 of 1

FIGURES



Scale: 1 inch = 550 feet

Note: All locations and boundaries are approximate.

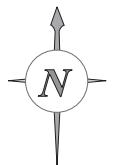


SITE VICINITY MAP

Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

Project # 2789
April 2014

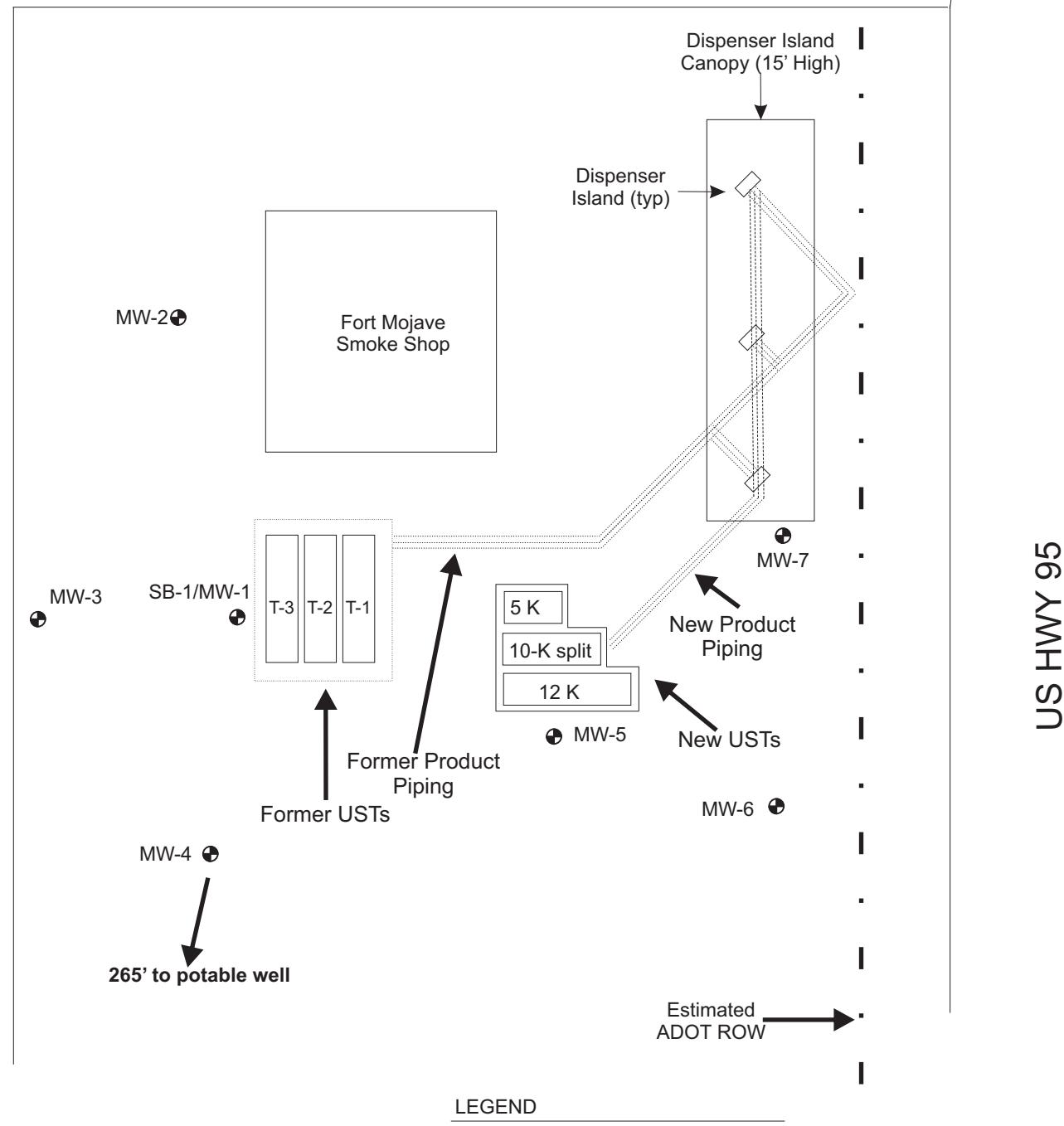
FIGURE
1



Willow Drive



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

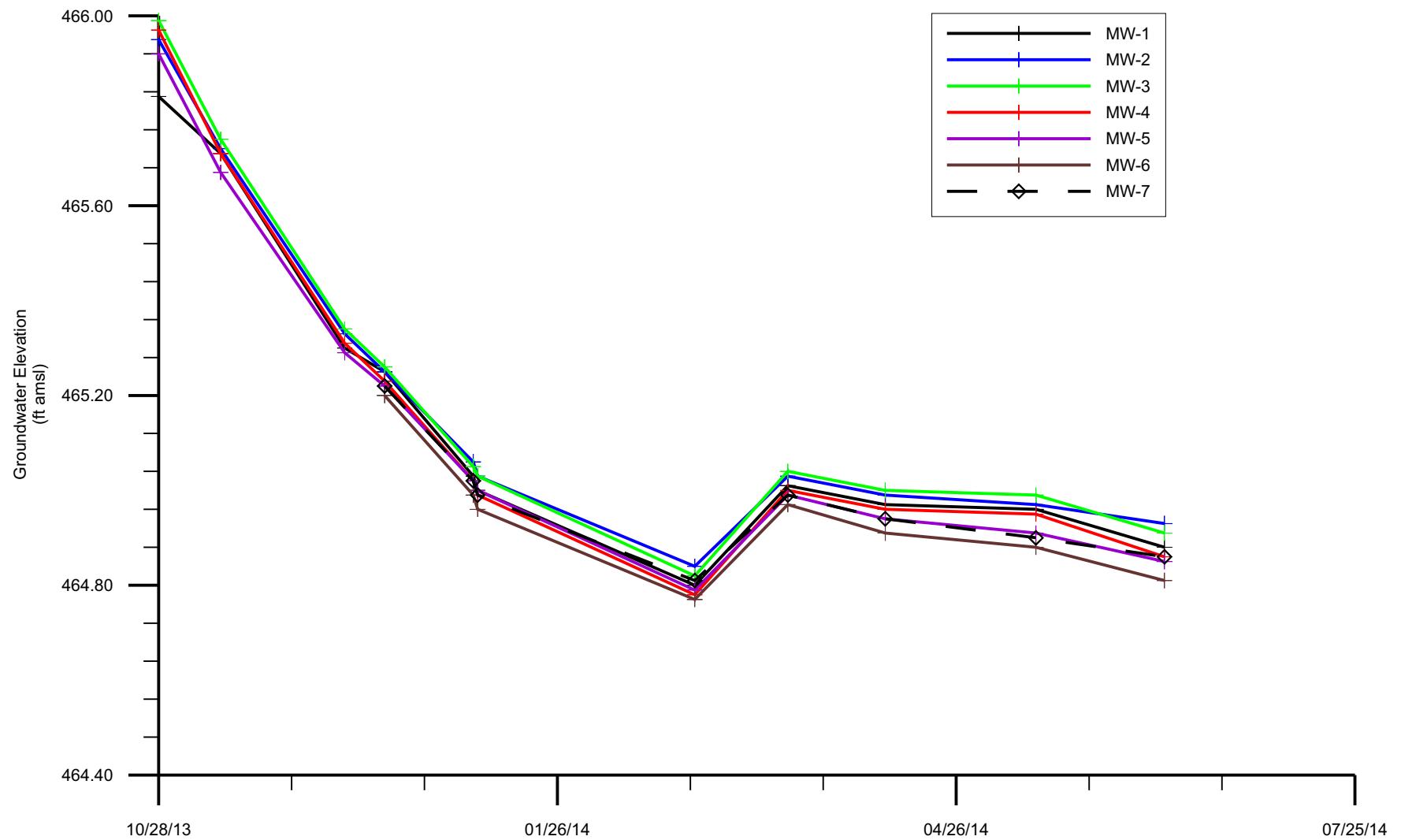


Project # 2789
April 2014

SITE PLAN

Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
2

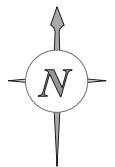


HYDROGRAPH

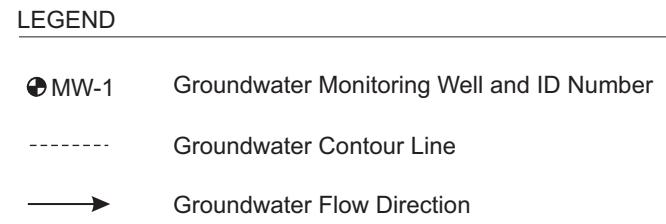
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

Project # 2789
July 2014

FIGURE
3



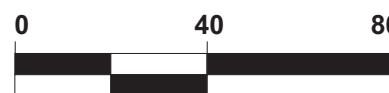
Willow Drive



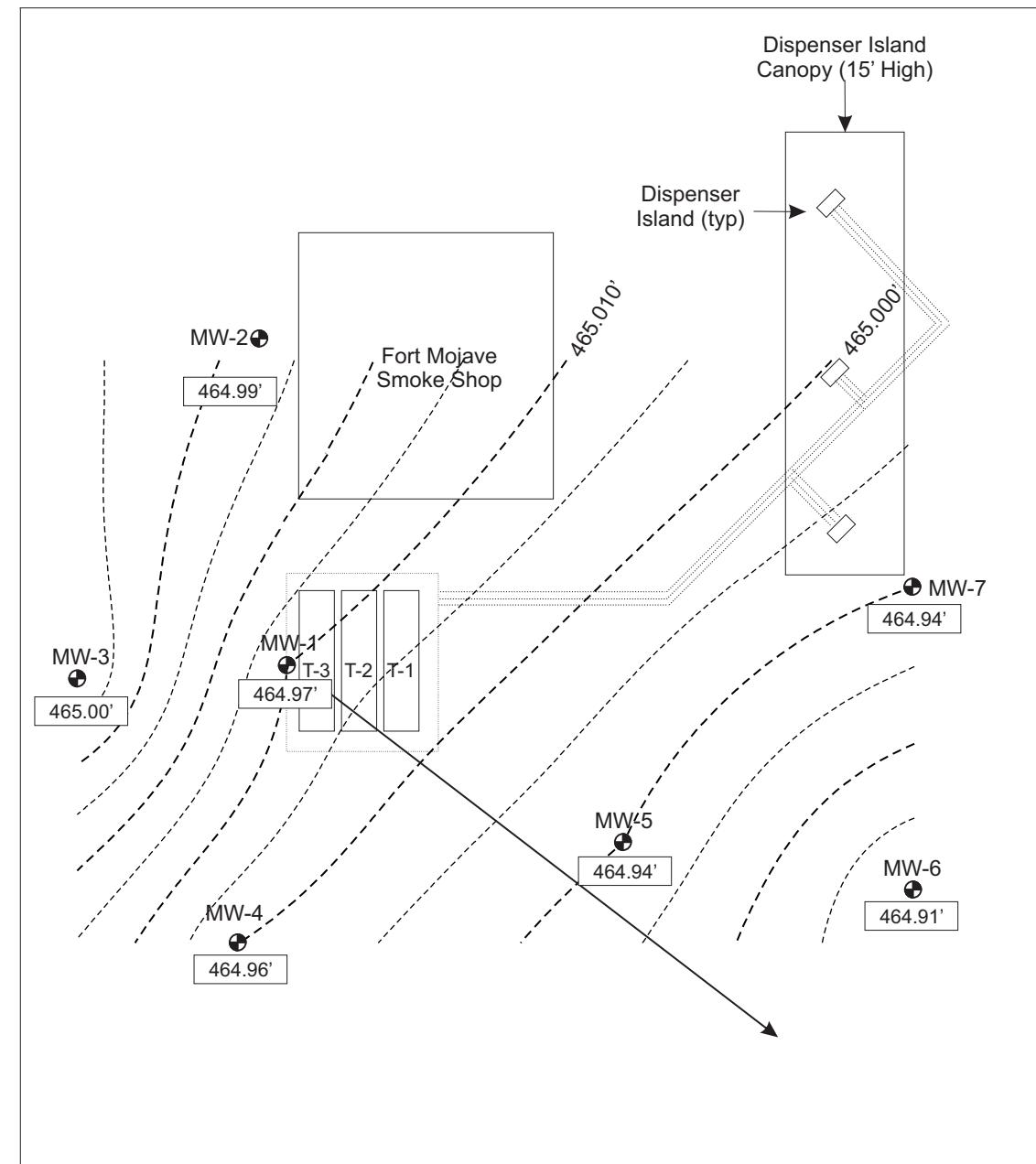
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 52.5° East @ 0.00041 feet per foot.



Spirit Mountain
RV Park



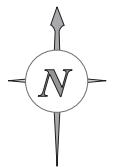
Note: All locations and boundaries are approximate.



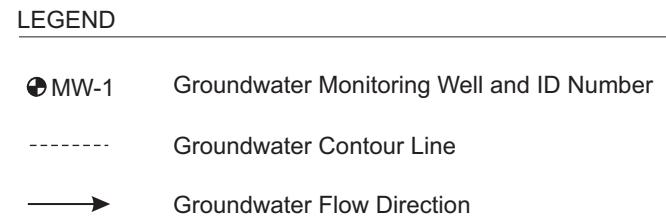
Project # 2789
July 2014

APRIL 10, 2014 GROUNDWATER
CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
4



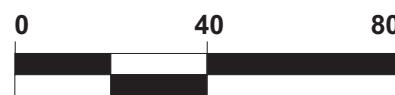
Willow Drive



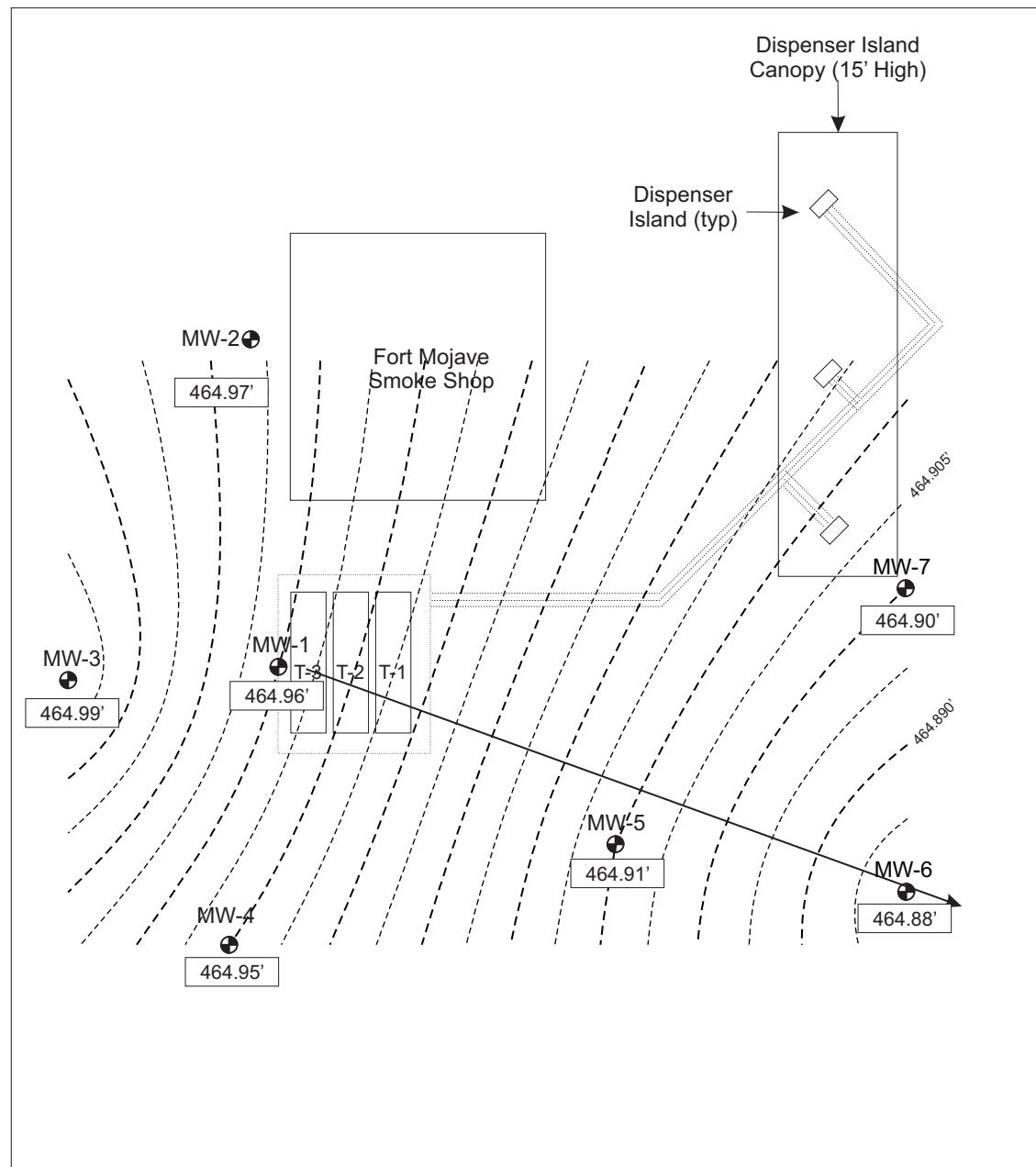
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 70.1° East @ 0.00051 feet per foot.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

US HWY 95

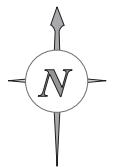
MAY 14, 2014 GROUNDWATER
CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
5

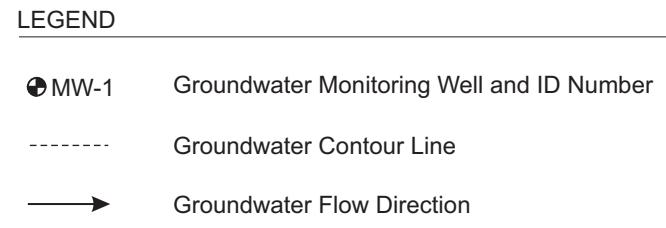


ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
July 2014



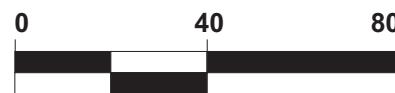
Willow Drive



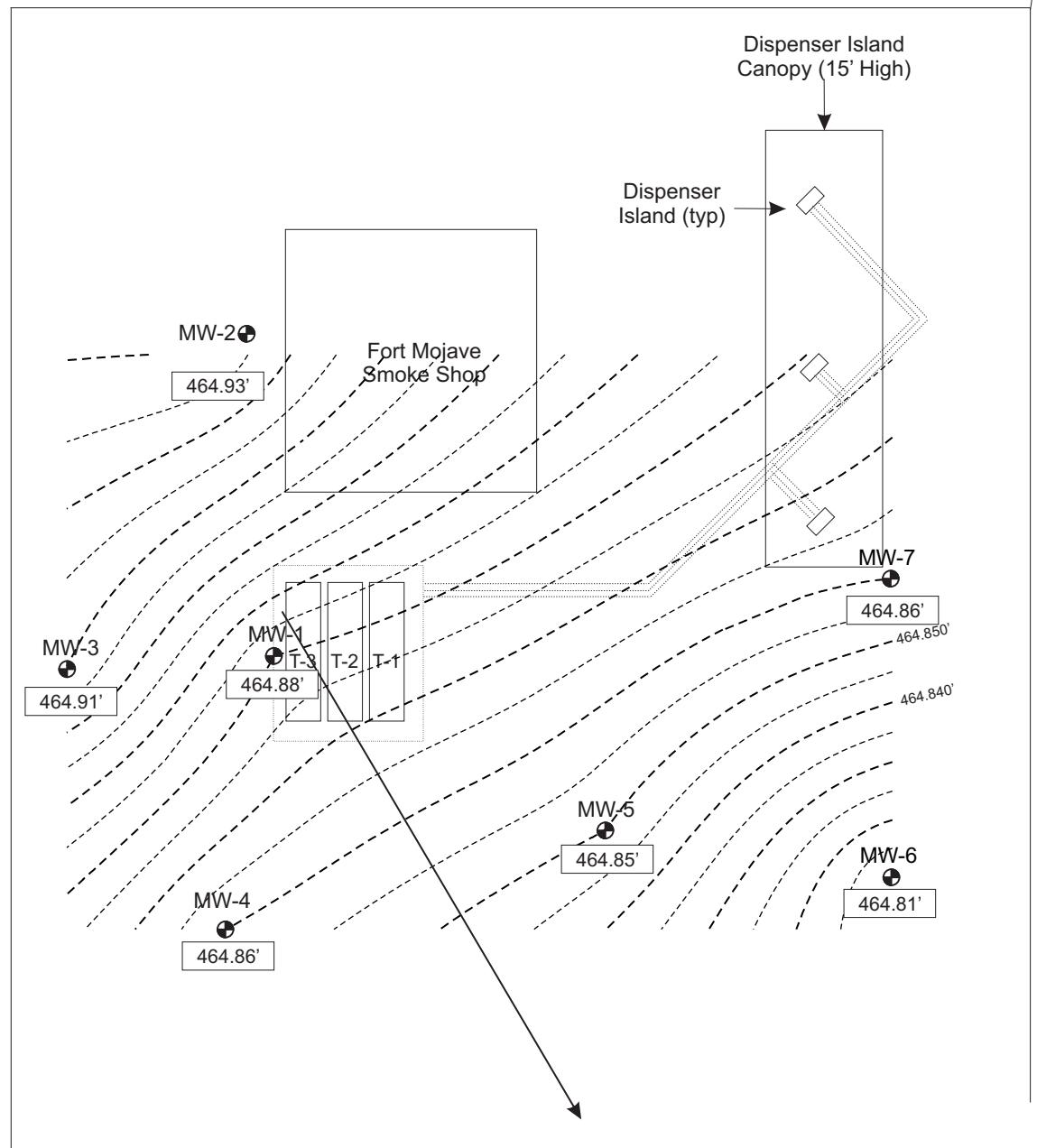
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 30.5° East @ 0.00063 feet per foot.



Spirit Mountain
RV Park

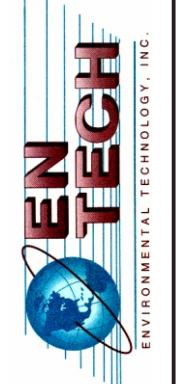


Note: All locations and boundaries are approximate.

US HWY 95

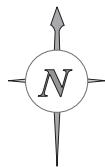
JUNE 12, 2014 GROUNDWATER
CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
6



ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
July 2014



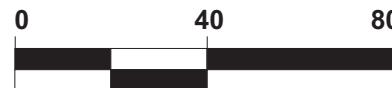
Willow Drive

LEGEND

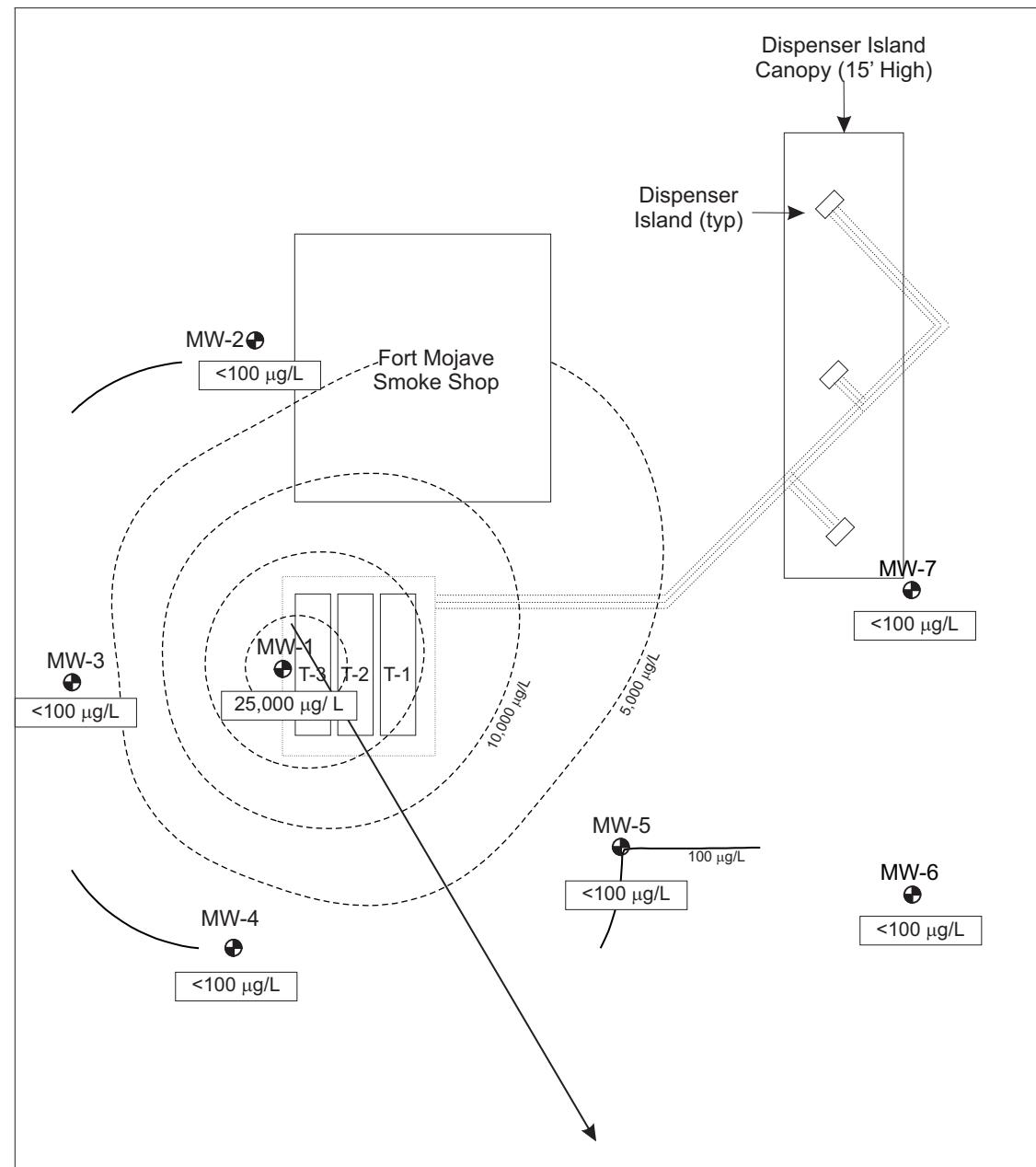
- MW-1 Groundwater Monitoring Well and ID Number
- - - Isoconcentration Line
- Groundwater Flow Direction

NOTES

Contour interval is 5,000 µg/L except where noted.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

US HWY 95

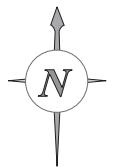
JUNE 12, 2014 GRO
ISOCONCENTRATION MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
7



ENV
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ENVIRONMENTAL TECHNOLOGY, INC.

Project #2789
July 2014



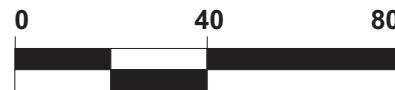
Willow Drive

LEGEND

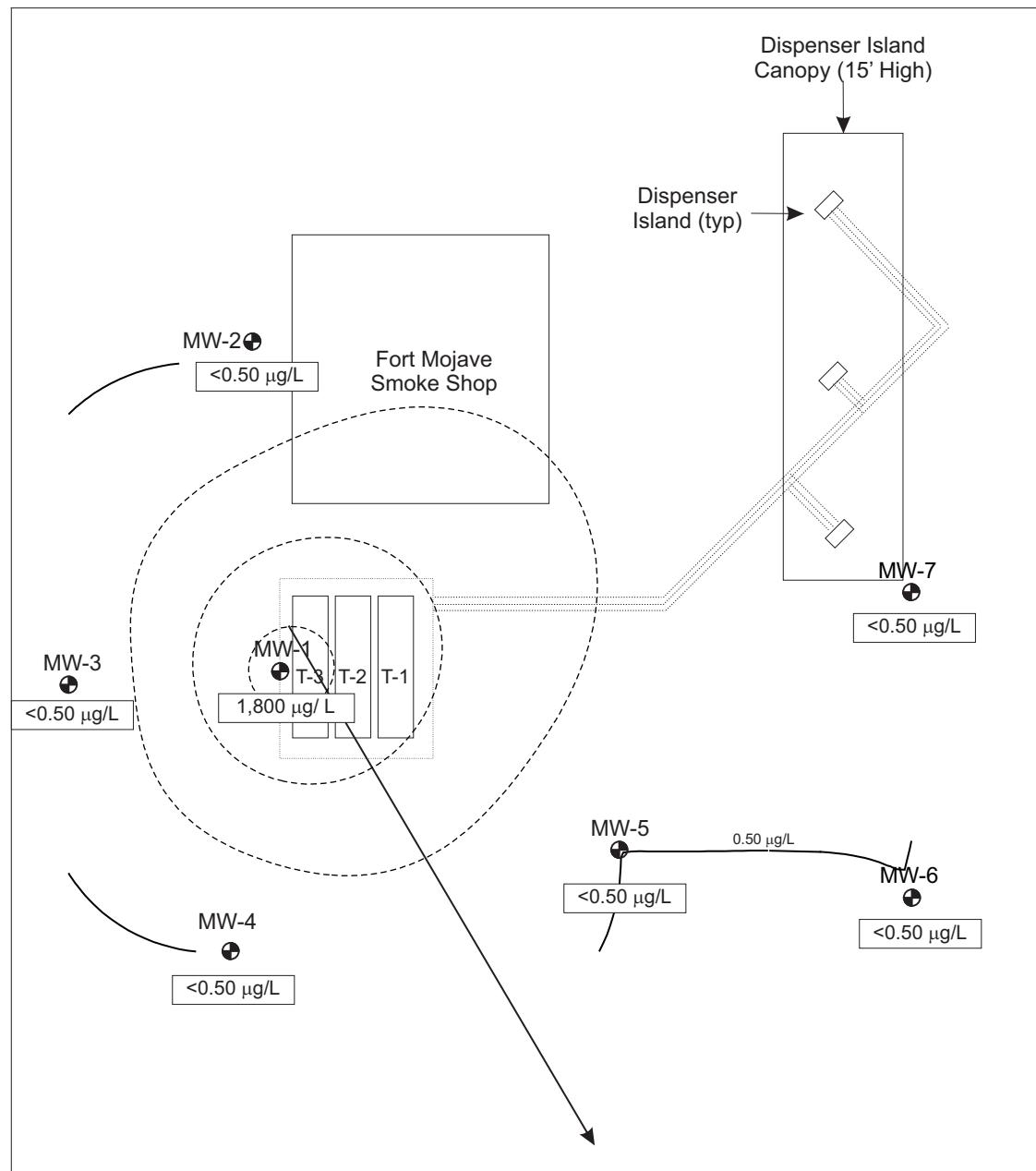
- MW-1 Groundwater Monitoring Well and ID Number
- - - Isoconcentration Line
- Groundwater Flow Direction

NOTES

Contour interval is 500 µg/L except where noted.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

FIGURE
8

JUNE 12, 2014 BENZENE
ISOCONCENTRATION MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

EN
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ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
July 2014

APPENDIX A. Laboratory Reports & Chain-of-Custody Documentation



Orange Coast Analytical, Inc.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2015

Laboratory Director's Name:
Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ8848

Project Name: Fort Mojave Smoke Shop

Project Number: 2789

Date Received: 6/13/2014

Date Reported: 6/19/2014

Chain of Custody Received:

Analytical Method: 8015D, 8260B,



Mark Noorani, Laboratory Director

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ8848
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 5°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ8848
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
MW-2	AZ8848-001	6/13/2014	6/12/2014	Water
MW-3	AZ8848-002	6/13/2014	6/12/2014	Water
MW-4	AZ8848-003	6/13/2014	6/12/2014	Water
MW-6	AZ8848-004	6/13/2014	6/12/2014	Water
MW-7	AZ8848-005	6/13/2014	6/12/2014	Water
MW-5	AZ8848-006	6/13/2014	6/12/2014	Water
MW-1	AZ8848-007	6/13/2014	6/12/2014	Water
Trip Blank	AZ8848-008	6/13/2014		Water

Mr. Carney Miller
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Lab Reference #: ENT AZ8848
 Project Name: Fort Mojave Smoke Shop
 Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-2	AZ8848-001	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	74-97-5	<1.0				
Bromochloromethane	75-27-4	<1.0				
Bromodichloromethane	75-25-2	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	107	66-141 %		Data Qualifiers:	None	
Toluene-d8:	85	68-130 %				
4-Bromofluorobenzene:	88	67-130 %				

Mr. Carney Miller
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Lab Reference #: ENT AZ8848
 Project Name: Fort Mojave Smoke Shop
 Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-3	AZ8848-002	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	74-97-5	<1.0				
Bromochloromethane	75-27-4	<1.0				
Bromodichloromethane	75-25-2	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC	<u>Dilution Factor: 1</u>			
Dibromofluoromethane:	104	66-141 %	<u>Data Qualifiers: None</u>			
Toluene-d8:	85	68-130 %				
4-Bromofluorobenzene:	89	67-130 %				

Mr. Carney Miller
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2541 E. University Dr
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Lab Reference #: ENT AZ8848
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-4	AZ8848-003	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	74-97-5	<1.0				
Bromochloromethane	75-27-4	<1.0				
Bromodichloromethane	75-25-2	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	103	66-141 %		Data Qualifiers:	None	
Toluene-d8:	86	68-130 %				
4-Bromofluorobenzene:	88	67-130 %				

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Lab Reference #: ENT AZ8848
 Project Name: Fort Mojave Smoke Shop
 Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-6	AZ8848-004	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	75-25-2	<1.0				
Bromochloromethane	74-97-5	<1.0				
Bromodichloromethane	75-27-4	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	104	66-141 %		Data Qualifiers:	None	
Toluene-d8:	84	68-130 %				
4-Bromofluorobenzene:	87	67-130 %				

Mr. Carney Miller
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ8848
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-7	AZ8848-005	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	75-25-2	<1.0				
Bromochloromethane	74-97-5	<1.0				
Bromodichloromethane	75-27-4	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	106	66-141 %		Data Qualifiers:	None	
Toluene-d8:	85	68-130 %				
4-Bromofluorobenzene:	88	67-130 %				

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Lab Reference #: ENT AZ8848
 Project Name: Fort Mojave Smoke Shop
 Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-5	AZ8848-006	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	CAS # 71-43-2	µg/L <0.50	ANALYTE Methyl t-butyl ether (MTBE)	CAS # 1634-04-4	µg/L <1.0	
Bromobenzene	108-86-1	<1.0	Naphthalene	91-20-3	<3.0	
Bromoform	74-97-5	<1.0	n-Propylbenzene	103-65-1	<1.0	
Bromochloromethane	75-27-4	<1.0	Styrene	100-42-5	<1.0	
Bromodichloromethane	75-25-2	<1.0	1,1,2,2-Tetrachloroethane	79-34-5	<1.0	
Bromomethane	74-83-9	<5.0	Tetrachloroethene	127-18-4	<1.0	
n-Butylbenzene	104-51-8	<1.0	Toluene	108-88-3	<1.0	
sec-Butylbenzene	135-98-8	<1.0	1,2,3-Trichlorobenzene	87-61-6	<1.0	
tert-Butylbenzene	98-06-6	<1.0	1,1,1-Trichloroethane	71-55-6	<1.0	
Carbon tetrachloride	56-23-5	<1.0	1,1,2-Trichloroethane	79-00-5	<1.0	
Chlorobenzene	108-90-7	<1.0	Trichloroethene	79-01-6	<1.0	
Chloroethane	75-00-3	<5.0	Trichlorofluoromethane	75-69-4	<2.0	
Chloroform	67-66-3	<1.0	1,2,3-Trichloropropane	96-18-4	<1.0	
Chloromethane	74-87-3	<5.0	1,2,4-Trimethylbenzene	95-63-6	<1.0	
2-Chlorotoluene	95-49-8	<1.0	1,3,5-Trimethylbenzene	108-67-8	<1.0	
4-Chlorotoluene	106-43-4	<1.0	Vinyl Chloride	75-01-4	<2.0	
Dibromochloromethane	124-48-1	<1.0	Total Xylenes	1330-20-7	<2.0	
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC	Dilution Factor:	1		
Dibromofluoromethane:	107	66-141 %	Data Qualifiers:	None		
Toluene-d8:	84	68-130 %				
4-Bromofluorobenzene:	98	67-130 %				

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Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix		
MW-1	AZ8848-007	6/13/2014	6/12/2014	6/18/2014	6/18/2014	Water		
<u>ANALYTE</u>								
Benzene	CAS # 71-43-2	µg/L 1800	<u>ANALYTE</u>					
Bromobenzene	108-86-1	<100	Methyl t-butyl ether (MTBE)	1634-04-4	<100			
Bromoform	74-97-5	<100	Naphthalene	91-20-3	<300			
Bromochloromethane	75-27-4	<100	n-Propylbenzene	103-65-1	200			
Bromodichloromethane	75-25-2	<100	Styrene	100-42-5	<100			
Bromomethane	74-83-9	<500	1,1,2,2-Tetrachloroethane	79-34-5	<100			
n-Butylbenzene	104-51-8	<100	Tetrachloroethene	127-18-4	<100			
sec-Butylbenzene	135-98-8	<100	Toluene	108-88-3	5600			
tert-Butylbenzene	98-06-6	<100	1,2,3-Trichlorobenzene	87-61-6	<100			
Carbon tetrachloride	56-23-5	<100	1,1,1-Trichloroethane	71-55-6	<100			
Chlorobenzene	108-90-7	<100	1,1,2-Trichloroethane	79-00-5	<100			
Chloroethane	75-00-3	<500	Trichloroethene	79-01-6	<100			
Chloroform	67-66-3	<100	Trichlorofluoromethane	75-69-4	<200			
Chloromethane	74-87-3	<500	1,2,3-Trichloropropane	96-18-4	<100			
2-Chlorotoluene	95-49-8	<100	1,2,4-Trimethylbenzene	95-63-6	680			
4-Chlorotoluene	106-43-4	<100	1,3,5-Trimethylbenzene	108-67-8	220			
Dibromochloromethane	124-48-1	<100	Vinyl Chloride	75-01-4	<200			
1,2-Dibromoethane	106-93-4	<100	Total Xylenes	1330-20-7	2000			
1,2-Dichlorobenzene	95-50-1	<100						
1,3-Dichlorobenzene	541-73-1	<100						
1,4-Dichlorobenzene	106-46-7	<100						
1,1-Dichloroethane	75-34-3	<100						
Dichlorodifluoromethane	75-71-8	<200						
1,2-Dichloroethane	107-06-2	<100						
1,1-Dichloroethene	75-35-4	<50						
cis-1,2-Dichloroethene	156-59-2	<50						
trans-1,2-Dichloroethene	156-60-5	<50						
1,2-Dichloropropane	78-87-5	<100						
1,3-Dichloropropane	142-28-9	<100						
2,2-Dichloropropane	594-20-7	<100						
1,1-Dichloropropene	563-58-6	<100						
cis-1,3-Dichloropropene	10061-01-5	<100						
trans-1,3-Dichloropropene	10061-02-6	<100						
Ethylbenzene	100-41-4	1100						
Isopropylbenzene	98-82-8	110						
4-Isopropyltoluene	99-87-6	<100						
<u>Surrogate:</u>	% RC	Acceptable % RC	<u>Dilution Factor:</u> 100					
Dibromofluoromethane:	98	66-141 %	<u>Data Qualifiers:</u> D2, E2,					
Toluene-d8:	84	68-130 %						
4-Bromofluorobenzene:	103	67-130 %						

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Trip Blank	AZ8848-008	6/13/2014		6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	74-97-5	<1.0				
Bromochloromethane	75-27-4	<1.0				
Bromodichloromethane	75-25-2	<1.0				
Bromomethane	74-83-9	<5.0				
n-Butylbenzene	104-51-8	<1.0				
sec-Butylbenzene	135-98-8	<1.0				
tert-Butylbenzene	98-06-6	<1.0				
Carbon tetrachloride	56-23-5	<1.0				
Chlorobenzene	108-90-7	<1.0				
Chloroethane	75-00-3	<5.0				
Chloroform	67-66-3	<1.0				
Chloromethane	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	104	66-141 %		Data Qualifiers:	None	
Toluene-d8:	86	68-130 %				
4-Bromofluorobenzene:	89	67-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT0618141			6/18/2014	6/18/2014	Water
ANALYTE						
Benzene	CAS # 71-43-2	µg/L <0.50	ANALYTE Methyl t-butyl ether (MTBE)	CAS # 1634-04-4	µg/L <1.0	
Bromobenzene	108-86-1	<1.0	Naphthalene	91-20-3	<3.0	
Bromoform	74-97-5	<1.0	n-Propylbenzene	103-65-1	<1.0	
Bromochloromethane	75-27-4	<1.0	Styrene	100-42-5	<1.0	
Bromodichloromethane	75-25-2	<1.0	1,1,2,2-Tetrachloroethane	79-34-5	<1.0	
Bromomethane	74-83-9	<5.0	Tetrachloroethene	127-18-4	<1.0	
n-Butylbenzene	104-51-8	<1.0	Toluene	108-88-3	<1.0	
sec-Butylbenzene	135-98-8	<1.0	1,2,3-Trichlorobenzene	87-61-6	<1.0	
tert-Butylbenzene	98-06-6	<1.0	1,1,1-Trichloroethane	71-55-6	<1.0	
Carbon tetrachloride	56-23-5	<1.0	1,1,2-Trichloroethane	79-00-5	<1.0	
Chlorobenzene	108-90-7	<1.0	Trichloroethene	79-01-6	<1.0	
Chloroethane	75-00-3	<5.0	Trichlorofluoromethane	75-69-4	<2.0	
Chloroform	67-66-3	<1.0	1,2,3-Trichloropropane	96-18-4	<1.0	
Chloromethane	74-87-3	<5.0	1,2,4-Trimethylbenzene	95-63-6	<1.0	
2-Chlorotoluene	95-49-8	<1.0	1,3,5-Trimethylbenzene	108-67-8	<1.0	
4-Chlorotoluene	106-43-4	<1.0	Vinyl chloride	75-01-4	<2.0	
Dibromochloromethane	124-48-1	<1.0	Xylenes, Total	1330-20-7	<2.0	
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
1,1-Dichloroethane	75-34-3	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<0.50				
cis-1,2-Dichloroethene	156-59-2	<0.50				
trans-1,2-Dichloroethene	156-60-5	<0.50				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
Isopropylbenzene	98-82-8	<1.0				
4-Isopropyltoluene	99-87-6	<1.0				
<u>Surrogate:</u>	% RC	Acceptable % RC	<u>Dilution Factor: 1</u>			
Dibromofluoromethane:	99	66-141 %	<u>Data Qualifiers: None</u>			
Toluene-d8:	86	68-130 %				
4-Bromofluorobenzene:	89	67-130 %				

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Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Fuel Hydrocarbons (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-2	AZ8848-001	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			117	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 70-169 %				
<u>Data Qualifiers:</u>	None					
MW-3	AZ8848-002	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			100	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 70-169 %				
<u>Data Qualifiers:</u>	None					
MW-4	AZ8848-003	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			118	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 70-169 %				
<u>Data Qualifiers:</u>	None					
MW-6	AZ8848-004	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			120	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 70-169 %				
<u>Data Qualifiers:</u>	None					
MW-7	AZ8848-005	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			166	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 70-169 %				
<u>Data Qualifiers:</u>	None					

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ8848
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Fuel Hydrocarbons (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-5	AZ8848-006	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			165	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 70-169 %		
<u>Data Qualifiers:</u> None						
MW-1	AZ8848-007	6/13/2014	6/12/2014	6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	25000	Bromochlorobenzene			118	
<u>Dilution Factor:</u> 50				* Acceptable Recovery: 70-169 %		
<u>Data Qualifiers:</u> D2,						
Method Blank	MBMT0617141			6/17/2014	6/17/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			104	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 70-169 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

**QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)**
Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 6/18/2014

Date of Analysis: 6/18/2014

Dup Date of Analysis: 6/18/2014

Laboratory Sample #: AZ8848-003

MS/MSD Qualifiers: None

Reference #: ENT AZ8848

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	10.0	9.20	9.00	92	90	2	57-131	20	<input type="checkbox"/>
Benzene	0.00	10.0	10.6	10.2	106	102	4	65-136	20	<input type="checkbox"/>
Trichloroethene	0.00	10.0	10.8	10.2	108	102	6	66-138	20	<input type="checkbox"/>
Toluene	0.00	10.0	9.90	9.30	99	93	6	59-130	20	<input type="checkbox"/>
Chlorobenzene	0.00	10.0	10.7	10.1	107	101	6	63-133	20	<input type="checkbox"/>

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	102	103	<input type="checkbox"/>
Toluene-d8	86	84	<input type="checkbox"/>
4-Bromofluorobenzene	90	89	<input type="checkbox"/>

LCS	LCSD	Qual
99	99	<input type="checkbox"/>
85	86	<input type="checkbox"/>
90	91	<input type="checkbox"/>

ACP % RC
66-141
68-130
67-130

Laboratory Control Sample

Date of Extraction: 6/18/2014

Date of Analysis: 6/18/2014

Dup Date of Analysis: 6/18/2014

Laboratory Sample #: HT0618141

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	10.0	10.4	10.5	104	105	1	58-136	21	<input type="checkbox"/>
Benzene	10.0	10.2	10.5	102	105	3	68-137	21	<input type="checkbox"/>
Trichloroethene	10.0	10.6	11.0	106	110	4	69-142	21	<input type="checkbox"/>
Toluene	10.0	9.60	9.90	96	99	3	64-130	20	<input type="checkbox"/>
Chlorobenzene	10.0	9.80	10.2	98	102	4	67-133	20	<input type="checkbox"/>

**QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)**
Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 6/17/2014

Date of Analysis: 6/17/2014

Dup Date of Analysis: 6/17/2014

Laboratory Sample #: AZ8848-001

MS/MSD Qualifiers: None

Reference #: ENT AZ8848

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH	0.0	1000	1000	1000	100	100	0	70-130	20	<input type="checkbox"/>

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Bromochlorobenzene	132	129	<input type="checkbox"/>	128	137	<input type="checkbox"/>	70-169

Laboratory Control Sample

Date of Extraction: 6/17/2014

Date of Analysis: 6/17/2014

Dup Date of Analysis: 6/17/2014

Laboratory Sample #: MT0617141

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH	1000	950	950	95	95	0	70-130	20	<input type="checkbox"/>

Data Qualifier Definitions

Qualifier

D2 = Sample required dilution due to high concentration of target analyte.

E2 = Concentration estimated. Analyte exceeded calibration range.

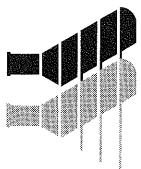
AZ8848-007 8260B

Toluene

Definition of terms:

R1	Results Of Laboratory Sample Number
SP CONC	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
%MS	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
%MSD	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample Results
LCSD	Laboratory Control Sample Duplicate Results
%LCS	Percent Recovery Of LCS: $\{(LCS-R1) / SP\} \times 100$
%LCSD	Percent Recovery Of LCSD: $\{(LCSD-R1) / SP\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %MS(MSD)	Acceptable Range of Percent
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was required for this analyte; see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record



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Lab Job No: AZ8848
Page 1 of 1
REQUIRED TURN AROUND TIME: Standard: X
72 Hours: 48 Hours: 24 Hours:

CUSTOMER INFORMATION		PROJECT INFORMATION					
COMPANY: <i>Environment Technology Inc</i>	PROJECT NAME: <i>Fort Mohave Smoke Shop</i>	NUMBER: <i>2789</i>	ADDRESS: <i>85501 Hwy 95</i>	ANALYSIS REQUESTED: <i>PCB's, Lead, Arsenic, Cadmium, Zinc, Copper, Nickel, Manganese, Iron, Cobalt, Vanadium, Phosphorus, Chloride, Sulfate, Nitrate, Nitrite, Chloride, Phosphate, Silica, Potassium, Sodium, Magnesium, Calcium, Barium, Strontium, Lead, Zinc, Cadmium, Arsenic, Copper, Nickel, Manganese, Iron, Cobalt, Vanadium, Phosphorus, Chloride, Sulfate, Nitrate, Nitrite, Chloride, Phosphate, Silica, Potassium, Sodium, Magnesium, Calcium, Barium, Strontium</i>	P.O. #: <i>PAH #2 87034</i>	PHONE: <i>602-267-1900 FAX: 602-267-1973</i>	SAMPLED BY: <i>Craig Johnson</i>
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	REMARKS/PRECAUTIONS	
MW-2	4	6/2/94	11:30 AM	GW	VSA	X X	
MW-3	4	6/2/94	12:17 AM	GW	VSA	X X	
MW-4	4	6/2/94	13:01 AM	GW	VSA	X X	
MW-6	4	6/2/94	13:49 AM	GW	VSA	X X	
MW-7	4	6/2/94	14:38 AM	GW	VSA	X X	
MW-5	4	6/2/94	15:20 PM	GW	VSA	X X	
MW-1	4	6/2/94	16:07 PM	GW	VSA	X X	
TOTAL COUNT	2					-008	
Total No. of Samples:							Preservative: 1 = Ice 2 = HCl 3 = HNO3 4 = H ₂ SO ₄ 5 = NaOH 6 = Other
Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Matrix:			
<i>J. Smith</i>	6/13/94 11:07	<i>John Doe</i>	6/13/94 11:07	DW - Drinking Water	WW - Wastewater		
Relinquished By:	Date/Time:	Received By:	Date/Time:	GW - Groundwater	SS - Soil/Solid		
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	OT- Other			
				Sample Integrity:			
				Intact	On ice		
				<u>Y</u>	<u>4.8°C</u>		

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

APPENDIX B. Field Parameter Measurements

Appendix B. Purge Parameter Report

Well ID	Date	Time	Volume	pH	Conductivity	Temperature	Turbidity	Color	Odor
MW-2	6/12/2014	11:07	7.5	6.71	1,165	82.7	Clear	None	None
MW-2	6/12/2014	11:10	15.0	6.98	1,178	80.4	Clear	None	None
MW-2	6/12/2014	11:13	22.5	7.16	1,165	78.4	Clear	None	None
MW-2	6/12/2014	11:16	30.0	7.20	1,177	78.0	Clear	None	None
MW-2	6/12/2014	11:19	37.5	7.21	1,170	77.5	Clear	None	None
MW-2	6/12/2014	11:21	42.5	7.21	1,176	77.4	Clear	None	None
MW-3	6/12/2014	11:55	7.5	7.21	1,382	81.2	Clear	None	None
MW-3	6/12/2014	11:58	15.0	7.22	1,388	78.9	Clear	None	None
MW-3	6/12/2014	12:01	22.5	7.23	1,378	78.6	Clear	None	None
MW-3	6/12/2014	12:04	30.0	7.23	1,395	78.1	Clear	None	None
MW-3	6/12/2014	12:07	37.5	7.22	1,398	78.1	Clear	None	None
MW-3	6/12/2014	12:09	42.5	7.25	1,398	78.2	Clear	None	None
MW-4	6/12/2014	12:34	7.5	7.12	1,609	82.6	Clear	None	None
MW-4	6/12/2014	12:37	15.0	7.19	1,599	80.3	Clear	None	None
MW-4	6/12/2014	12:40	22.5	7.14	1,588	79.9	Clear	None	None
MW-4	6/12/2014	12:43	30.0	7.15	1,600	79.1	Clear	None	None
MW-4	6/12/2014	12:46	37.5	7.14	1,591	79.2	Clear	None	None
MW-4	6/12/2014	12:48	42.5	7.15	1,601	79.1	Clear	None	None
MW-6	6/12/2014	13:25	7.5	7.06	2,044	84.4	Clear	None	None
MW-6	6/12/2014	13:28	15.0	7.09	2,029	81.1	Clear	None	None
MW-6	6/12/2014	13:31	22.5	7.07	1,985	80.5	Clear	None	None
MW-6	6/12/2014	13:34	30.0	7.13	1,985	79.9	Clear	None	None
MW-6	6/12/2014	13:37	37.5	7.08	1,954	79.4	Clear	None	None
MW-6	6/12/2014	13:39	42.5	7.10	1,955	79.7	Clear	None	None

Volume is reported in gallons.

Conductivity is reported in micromhos per cm.

Temperature is reported in degrees Fahrenheit.

Appendix B.
 Page 1 of 2

Appendix B. Purge Parameter Report

Well ID	Date	Time	Volume	pH	Conductivity	Temperature	Turbidity	Color	Odor
MW-7	6/12/2014	14:14	7.5	7.12	1,721	85.4	Clear	None	None
MW-7	6/12/2014	14:17	15.0	7.17	1,713	82.0	Clear	None	None
MW-7	6/12/2014	14:20	22.5	7.15	1,726	81.6	Clear	None	None
MW-7	6/12/2014	14:23	30.0	7.22	1,732	81.2	Clear	None	None
MW-7	6/12/2014	14:26	37.5	7.15	1,725	81.0	Clear	None	None
MW-7	6/12/2014	14:28	42.5	7.19	1,727	81.0	Clear	None	None
MW-5	6/12/2014	14:54	7.5	7.13	1,518	84.0	Clear	None	None
MW-5	6/12/2014	14:57	15.0	7.24	1,538	82.2	Clear	None	None
MW-5	6/12/2014	15:00	22.5	7.14	1,541	80.7	Clear	None	None
MW-5	6/12/2014	15:03	30.0	7.18	1,554	80.0	Clear	None	None
MW-5	6/12/2014	15:06	37.5	7.12	1,546	79.7	Clear	None	None
MW-5	6/12/2014	15:08	42.5	7.19	1,557	80.1	Clear	None	None
MW-1	6/12/2014	15:35	7.5	7.38	1,275	83.8	Clear	None	Petroleum
MW-1	6/12/2014	15:38	15.0	7.25	1,301	81.3	Clear	None	Petroleum
MW-1	6/12/2014	15:41	22.5	7.31	1,329	80.3	Clear	None	Petroleum
MW-1	6/12/2014	15:44	30.0	7.23	1,327	79.7	Clear	None	Petroleum
MW-1	6/12/2014	15:47	37.5	7.27	1,350	79.5	Clear	None	Petroleum
MW-1	6/12/2014	15:49	42.5	7.26	1,385	79.7	Clear	None	Petroleum

Volume is reported in gallons.

Conductivity is reported in micromhos per cm.

Temperature is reported in degrees Fahrenheit.

Appendix B.
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APPENDIX C. Summary of Groundwater Monitoring Data

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	
MW-1	10/28/13	482.53	16.73	16.69	0.04	16.70	465.83														
	11/11/13	482.53	16.84	16.81	0.03	16.82	465.71														
	12/09/13	482.53	17.23				465.30														
	12/18/13	482.53	17.32	17.27	0.05	17.28	465.25														
	01/07/14	482.53	17.50				465.03														
	01/08/14	482.53	17.53				465.00														
	02/26/14	482.53	17.73				464.80														
	03/19/14	482.53	17.52				465.01	32,000	1,400	<100	<100	1,100	100	<100	<300	180	7,900	720	220	4,100	
	04/10/14	482.53	17.56				464.97		720	<100	<100	480	<100	<100	<300	<100	2,600	390	100	1,200	
	05/14/14	482.53	17.57				464.96														
	06/12/14	482.53	17.65				464.88	25,000	1,800	<100	<100	1,100	110	<100	<300	200	5,600	680	220	2,000	
MW-2	10/28/13	482.96	17.01				465.95	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	1.00	<1.0	<1.0	<2.0	
	11/11/13	482.96	17.24				465.72														
	12/09/13	482.96	17.63				465.33														
	12/18/13	482.96	17.71				465.25	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.96	17.90				465.06														
	01/08/14	482.96	17.93				465.03														
	02/26/14	482.96	18.12				464.84														
	03/19/14	482.96	17.93				465.03	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	482.96	17.97				464.99														
	05/14/14	482.96	17.99				464.97														
	06/12/14	482.96	18.03				464.93	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0	
MW-3	10/28/13	482.58	16.59				465.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	11/11/13	482.58	16.84				465.74														
	12/09/13	482.58	17.24				465.34														

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

All analytical values reported in micrograms per liter.

Bolded and italicized values exceed method reporting limits.

Bolded and shaded values exceed regulatory standards.

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
	12/18/13	482.58	17.32			465.26	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.58	17.53			465.05														
	01/08/14	482.58	17.55			465.03														
	02/26/14	482.58	17.76			464.82														
	03/19/14	482.58	17.54			465.04	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	482.58	17.58			465.00														
	05/14/14	482.58	17.59			464.99														
	06/12/14	482.58	17.67			464.91	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
MW-4	10/28/13	482.69	16.72			465.97	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	11/11/13	482.69	16.98			465.71														
	12/09/13	482.69	17.38			465.31														
	12/18/13	482.69	17.46			465.23	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.69	17.67			465.02														
	01/08/14	482.69	17.70			464.99														
	02/26/14	482.69	17.91			464.78														
	03/19/14	482.69	17.69			465.00	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	482.69	17.73			464.96														
	05/14/14	482.69	17.74			464.95														
	06/12/14	482.69	17.83			464.86	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
MW-5	10/28/13	482.33	16.41			465.92	250	49	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	1.24	<1.0	<1.0
	11/11/13	482.33	16.66			465.67														
	12/09/13	482.33	17.04			465.29														
	12/18/13	482.33	17.11			465.22	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.33	17.31			465.02														
	01/08/14	482.33	17.33			465.00														

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

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Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
	02/26/14	482.33	17.54				464.79													
	03/19/14	482.33	17.34				464.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	482.33	17.39				464.94		<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	05/14/14	482.33	17.42				464.91													
	06/12/14	482.33	17.48				464.85	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
MW-6	12/18/13	481.38	16.18				465.20	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	481.38	16.39				464.99													
	01/08/14	481.38	16.42				464.96													
	02/26/14	481.38	16.61				464.77													
	03/19/14	481.38	16.41				464.97	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	481.38	16.47				464.91													
	05/14/14	481.38	16.50				464.88													
	06/12/14	481.38	16.57				464.81	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
MW-7	12/18/13	481.68	16.46				465.22	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	481.68	16.66				465.02													
	01/08/14	481.68	16.69				464.99													
	02/26/14	481.68	16.87				464.81													
	03/19/14	481.68	16.69				464.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	481.68	16.74				464.94													
	05/14/14	481.68	16.78				464.90													
	06/12/14	481.68	16.82				464.86	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0	

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